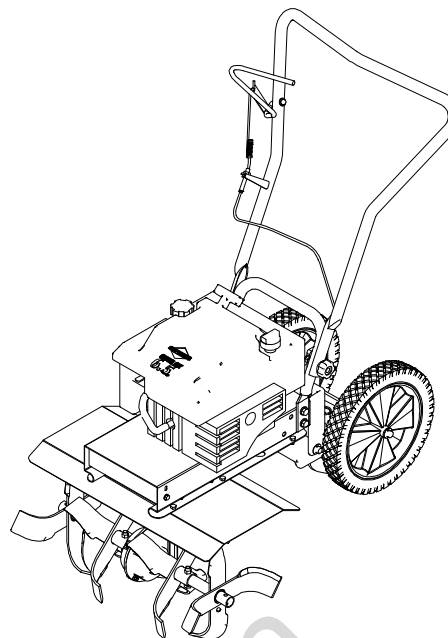




Parts Manual



5521 FT Front Tine Tiller

Attachment

Mfg. No.	Description
1695584	Roticut, 5.5TP Walk-Behind Tiller
1695921	Roticut, 5.5TP Walk-Behind Tiller

Manual Part No. 1738907

Revision A

Rev. Date: 3/18/2011

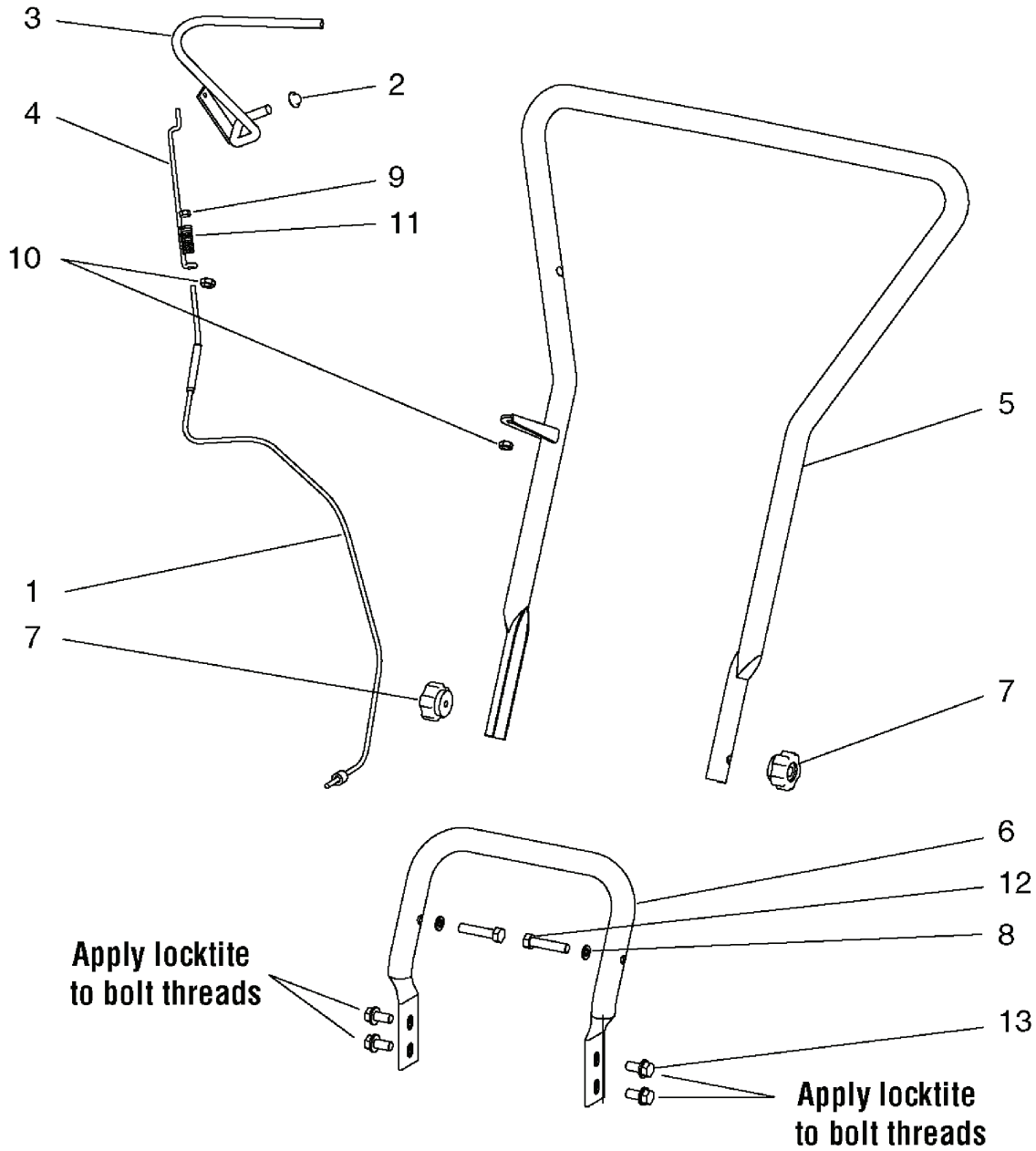
PRODUCT COMPONENTS	PAGES
Handle Bar Group	4
Engine Mount Group	6
Decal Group	8
Tine Assembly Group	10
Torque Specification Chart	Inside Back Cover

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Handle Bar Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

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The above parts group applies to the following Mfg. Nos.:

1695584 - Roticul

1695921 - Roticul

Handle Bar Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	1738714	1	CABLE ASSEMBLY, With Ferrel
2	1960093	1	NUT, Push, 3/8 Dia.
3	1738715	1	LEVER, Drive Safety Control
4	1738693	1	LINK, 5-3/4
5	1738694	1	HANDLE, Top
6	1738716	1	HANDLE. Bottom
7	1733098	2	KNOB, 5-Star, 5/16-18
8	7090187	2	WASHER, Locking, Spring, 5/16
9	1933896	1	NUT, Hex, Nylock, 10-24
10	2820438	2	NUT, Hex-Jam, 5/16-24
11	1738712	1	SPRING, Compression, Forward Arm
12	1922127	2	BOLT, Hex-Head, 5/16-18 x 1-3/4
13	1934654	4	BOLT, Hex-Head, Serated Flange, 3/8-16 x 1

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Footnotes

The above parts group applies to the following Mfg. Nos.:

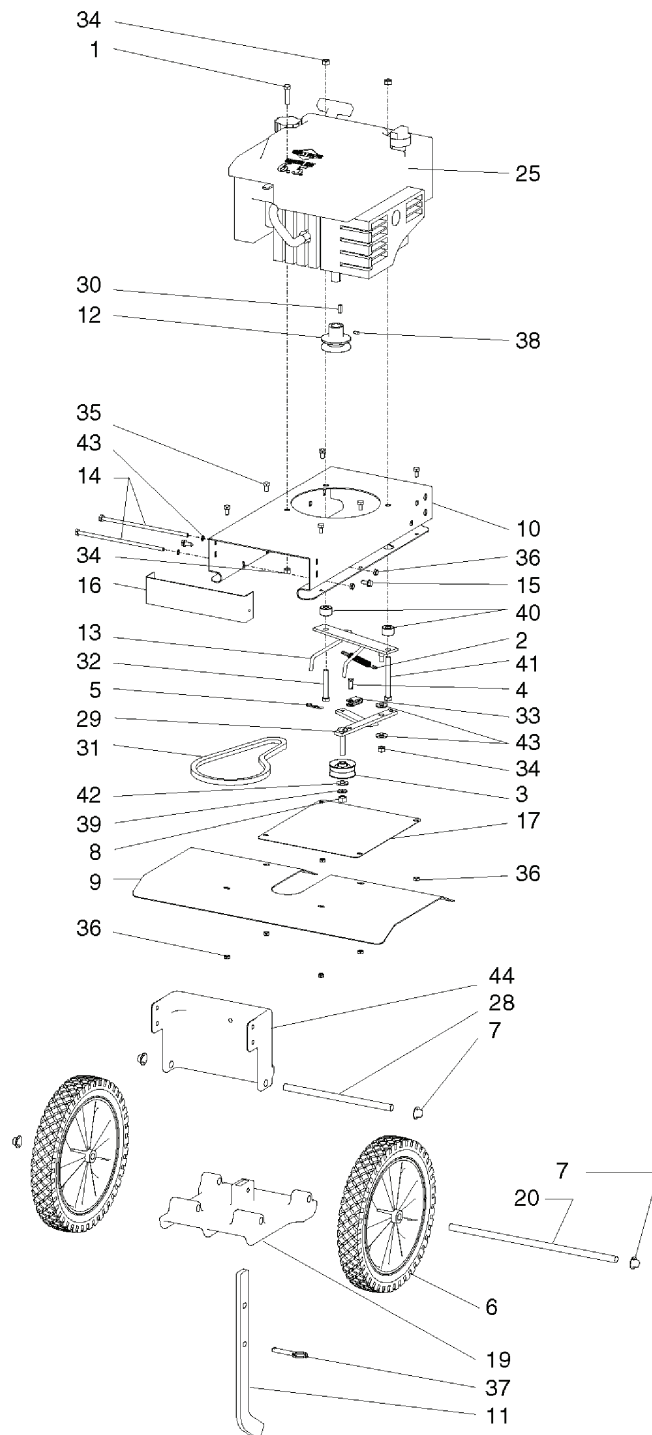
1695584 - Roticul

1695921 - Roticul

Engine Mount Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

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The above parts group applies to the following Mfg. Nos.:

1695584 - Roticul

1695921 - Roticul

Engine Mount Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	1921977	1	BOLT, Hex-Head Capscrew, 5/16-18 x 1-1/4
2	1716802	1	SPRING, Forward Arm
3	1716805	1	PULLEY, Reverse Idler
4	1716702	1	PIN, Link
5	1716703	1	PIN, Cotter
6	1738774	2	WHEEL & TIRE ASSEMBLY
7	1960519	4	NUT, Push, 1/2 Dia.
8	1916950	1	NUT, Hex, Non-Locking, 3/8-16
9	1738691	1	SHIELD, Tine
10	1738692	1	FRAME, Engine Mount
11	1738705	1	LEVER, Depth Regulator
12	1738713	1	PULLEY, Engine, Single-Groove, 3/4 I.D.
13	1738718	1	BELT GUIDE & MOUNT
14	1960283	2	BOLT, Hex-Head Capscrew, 1/4-20 x 7-1/2
15	1925592	2	SCREW, Sheet Metal, 1/4 x 3/4
16	1738719	1	COVER, Front Belt
17	1738695	1	SHIELD, Dirt
19	1738703	1	TAIL MOUNT, Lower
20	1738709	1	SHAFT, Wheel, 1/2
25	-----	1	* ENGINE, 6.50 T.R. Briggs & Stratton (MTT10T7020124B1)
28	1738704	1	SHAFT, Tail Mount Hinge, 1/2
29	1738710	1	IDLER ARM, Forward
30	1716771	1	KEY, Square, 3/16 x 5/8
31	1738711	1	BELT, Forward
32	1921978	1	BOLT, Hex-Head, Capscrew, 5/16-18 x 2-1/4, G5
33	1716728	1	YOKE, Clevis, Zinc-Plated
34	1923362	4	NUT, Bi-Way Lock, 5/16-18
35	1921978	6	BOLT, Hex-Head, Capscrew, 1/4-20 x 2, G5
36	722393	8	NUT, Hex Ny-Lock, 1/4-20
37	1738771	1	PIN, Detent, 5/16 x 2
38	1716758	2	SET SCREW, 1/4-20 x 1/4
39	720178	1	WASHER, Spring-Lock, 3/8
40	1738775	2	SPACER, Guide Belt
41	1926106	1	BOLT, Hex-Head, 5/16-18 x 3-1/4
42	1918265	3	WASHER, Flat, 5/16
43	120380	2	WASHER, Spring Lock, 1/4
44	1738898	1	TAIL MOUNT, Upper

Footnotes

Note* See your local Briggs & Stratton distributor for Parts & Service.

The above parts group applies to the following Mfg. Nos.:

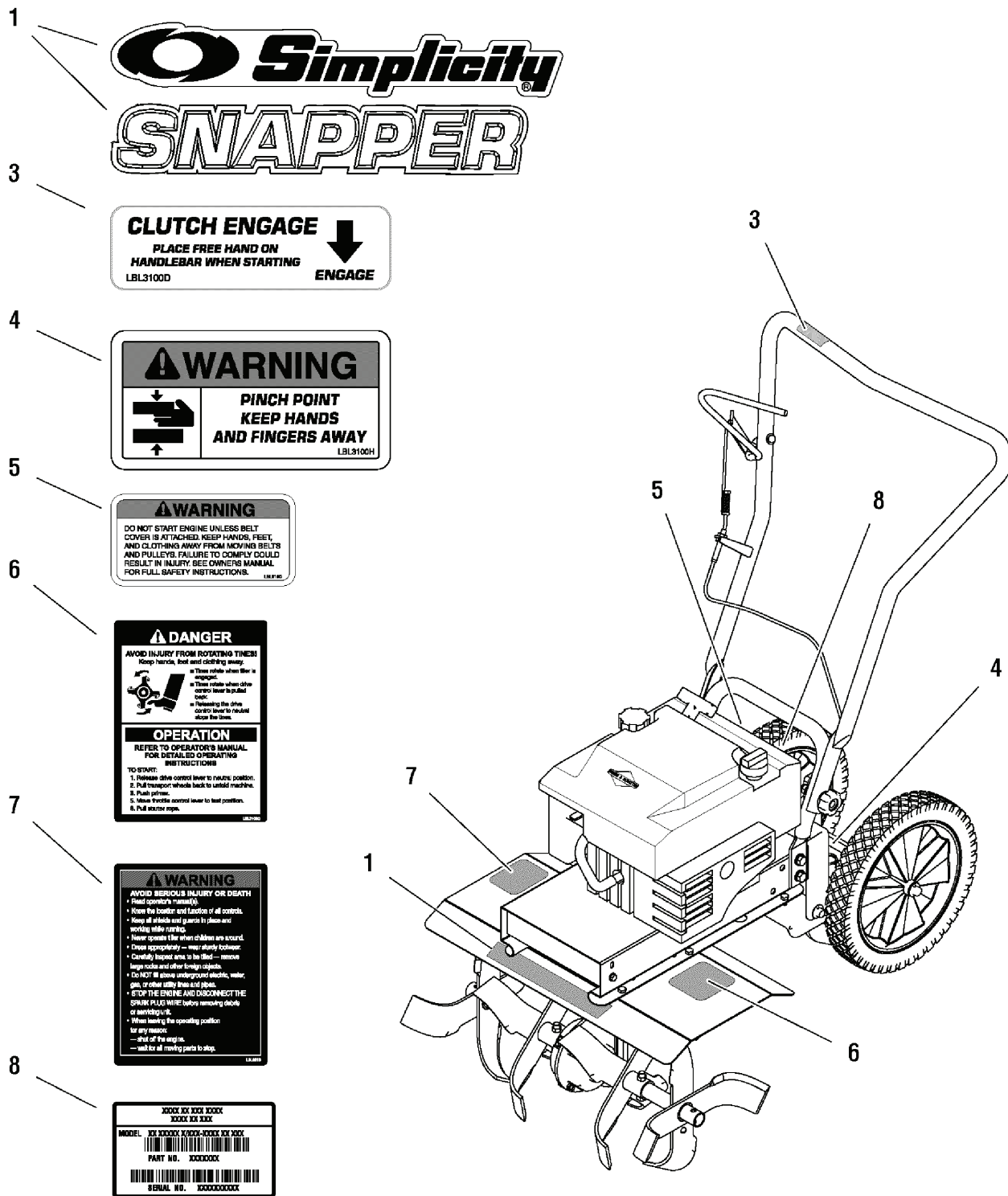
1695584 - Roticul

1695921 - Roticul

Decal Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

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The above parts group applies to the following Mfg. Nos.:

1695584 - Roticul
1695921 - Roticul

Decal Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	1722551	1	DECAL, SIMPLICITY, w/Logo
1	7073905	1	DECAL, Snapper
2	1738777	1	DECAL SHEET, Common Warning Roticul Tillers (Includes Ref. Nos. 3, 4, 5, 6 & 7)
3	-----	1	* DECAL, Clutch Engage (LBL3100D)
4	-----	1	* DECAL, Warning Pinch Point (LBL3100H)
5	-----	1	* DECAL, Warning, Belt Cover (LBL516C)
6	-----	1	* DECAL, Hood, Operator Instructions Label (LBL3100C)
7	-----	1	* DECAL, Warning, Serious Injury (LBL821B)
8	-----	1	** DECAL, Serial Number

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Footnotes

Note* Not Service Separately, Order Service Decal Sheet Ref. No. 2

Note** Not a Serviceable Part

The above parts group applies to the following Mfg. Nos.:

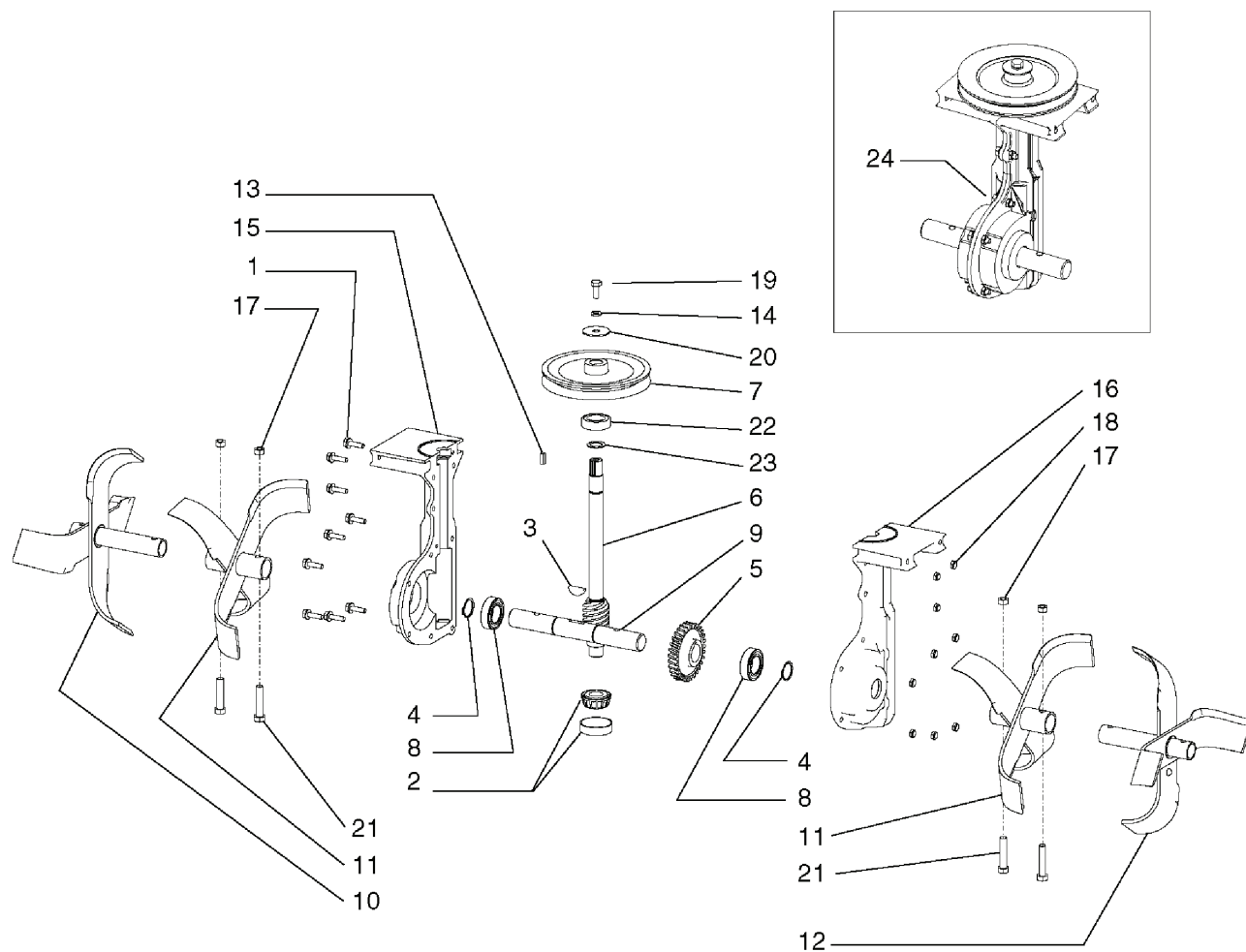
1695584 - Roticul

1695921 - Roticul

Tine Assembly Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

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The above parts group applies to the following Mfg. Nos.:

1695584 - Roticul

1695921 - Roticul

Tine Assembly Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	1716795	9	BOLT, Serated-Flange, Hex-Head, 1/4-20 x 7/8
2	1716810	1	BEARING, Tapered (Includes Cone & Race)
3	1716813	1	KEY, Half-Moon, 1/4 x 1
4	1716830	2	RING, Snap, External
5	-----	1	* GEAR , Brass, 1" I.D.
6	-----	1	* SHAFT, Drive
7	1738702	1	PULLEY, Single-Groove
8	1738701	2	BEARING, Sealed, 1" I.D. (replaces 3205 bearing & 747 spacer)
9	-----	1	* SHAFT, Tine, 1"
10	1738706	1	TINE SET, Outside, Right
11	1738707	2	TINE SET, Inside
12	1738708	1	TINE SET, Outside, Left
13	1716771	1	KEY, Square, 3/16 x 5/8
14	1916165	1	LOCKWASHER, Spring, 5/16
15	-----	1	* CASTING, Right Side
16	-----	1	* CASTING, Left Side
17	1923362	4	NUT, Bi-Way Lock, 5/16-18
18	722393	9	NUT, Hex Ny-Lock, 1/4-20
19	1921515	1	SCREW, Hex-Head, 5/16-24 x 3/4
20	1716770	1	WASHER, 5/16 I.D. x 1-5/8 O.D.
21	1922127	4	BOLT, Hex-Head, 5/16-18 x 1-3/4
22	1738727	1	BEARING, Ball, R12
23	1738776	1	RING, Snap, External, 3/4
24	1738696	1	TRANSMISSION, Complete

Footnotes

Note* Not a Serviceable Part - Service Complete Transmission

The above parts group applies to the following Mfg. Nos.:

1695584 - Roticul

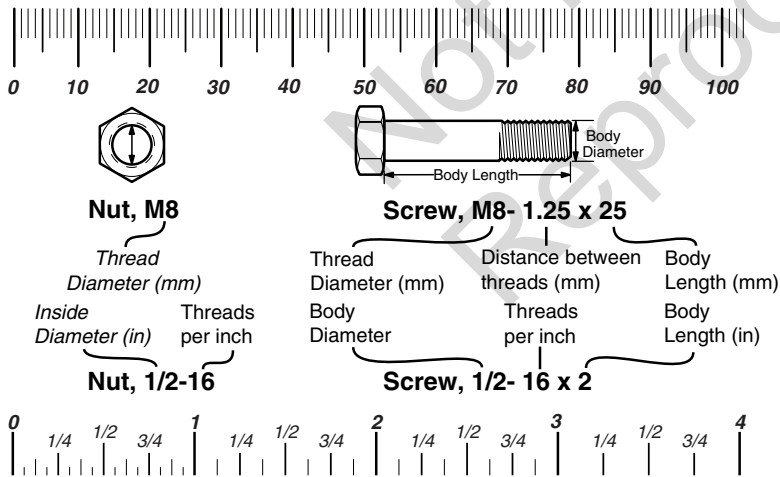
1695921 - Roticul

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Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance $\pm 20\%$)								
Property Class	 Class 5.6		 Class 8.8		 Class 10.9		 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150

The guides and ruler furnished below are designed to help you select the appropriate hardware.



Standard Hardware Sizing

When a washer or nut is identified as **1/2"** (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

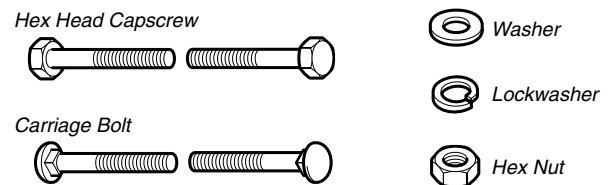
When bolt or capscrew is identified as **1/2 - 16 x 2"** (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (1.25 thread diameter). The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance $\pm 20\%$)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types



Wrench & Fastener Size Guide

 1/4" Bolt or Nut Wrench—7/16"	 5/16" Bolt or Nut Wrench—1/2"	 3/8" Bolt or Nut Wrench—9/16"	 7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	 1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22mm

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Briggs & Stratton Yard Power Products Group

3515 N. 124 Street / PO Box 702
Wauwatosa, WI 53222 USA

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